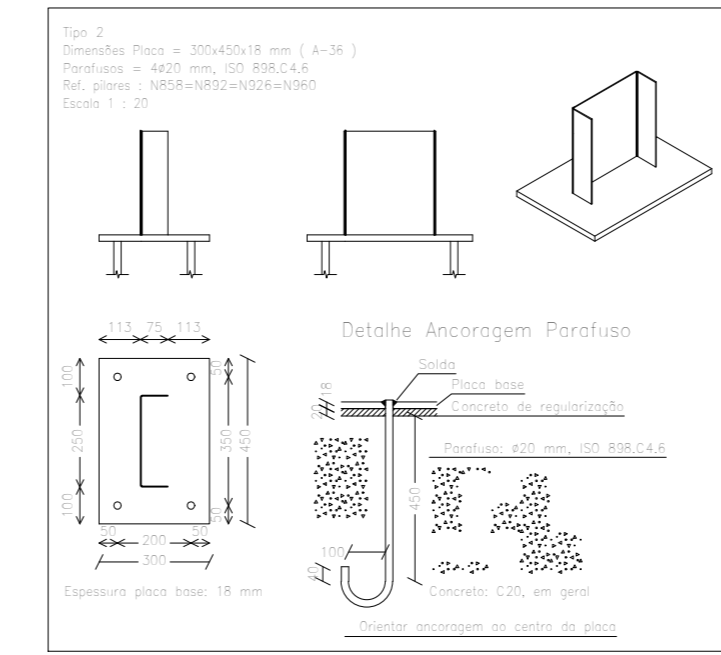
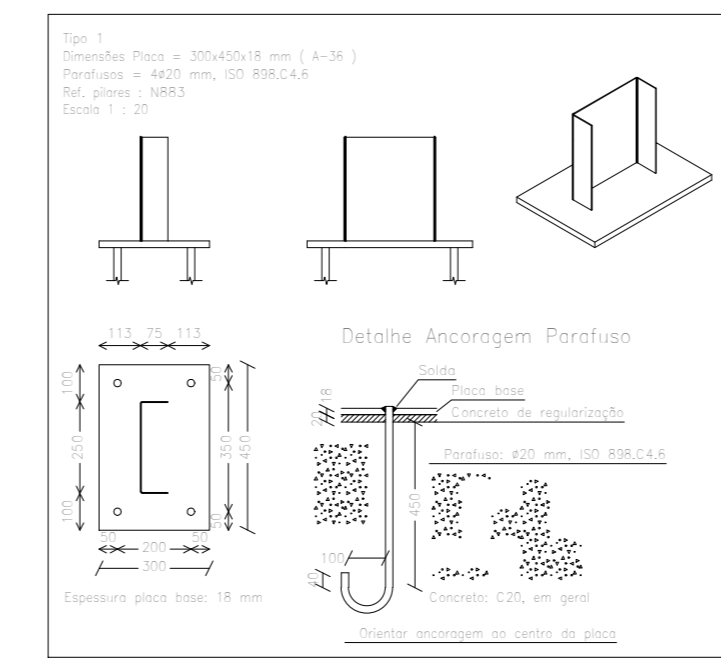
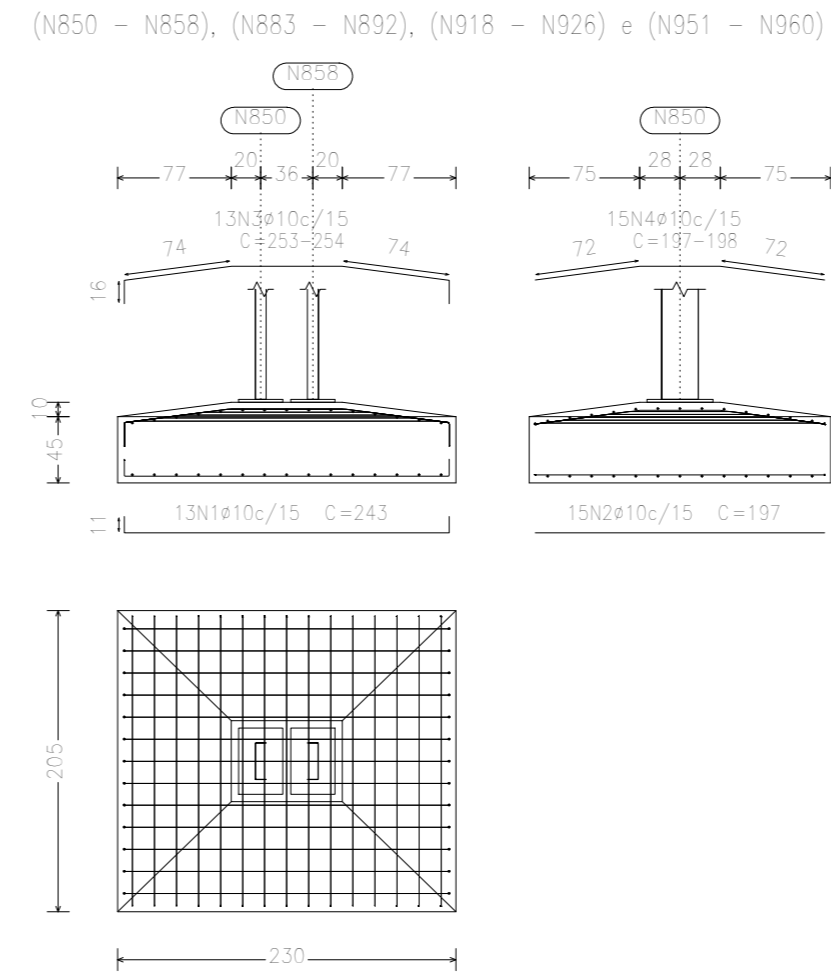
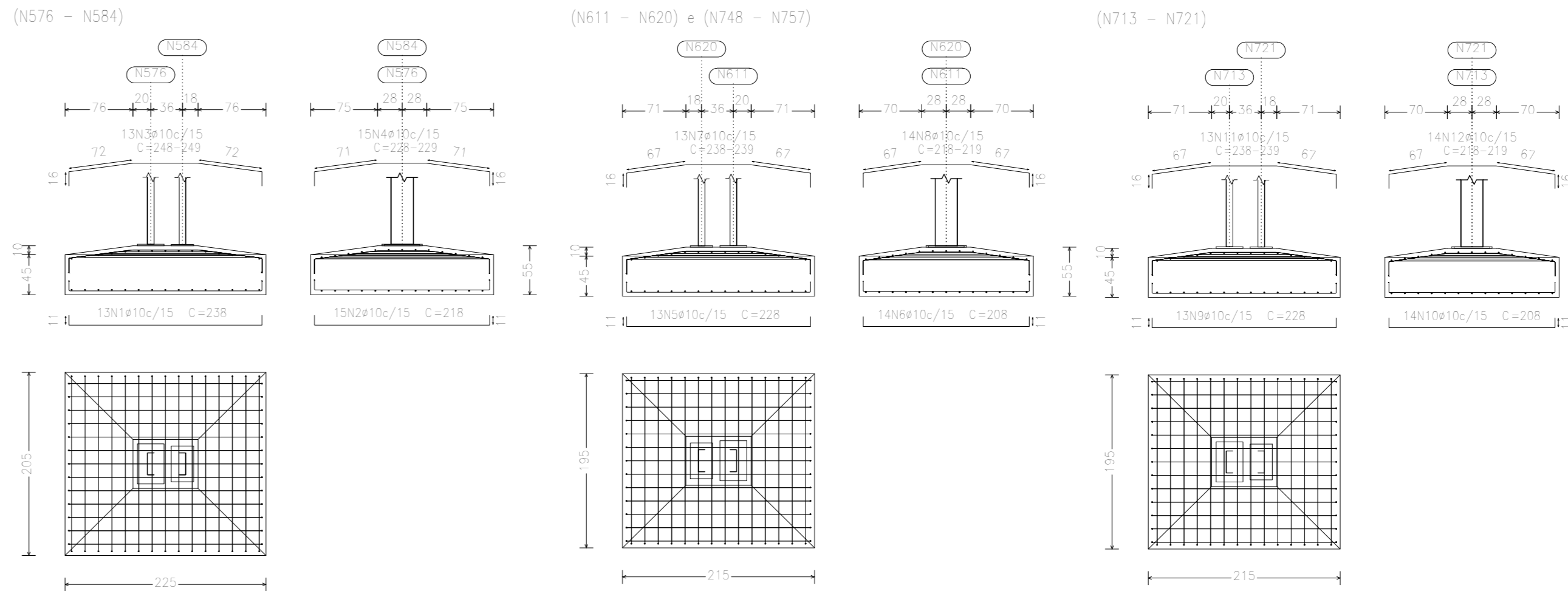
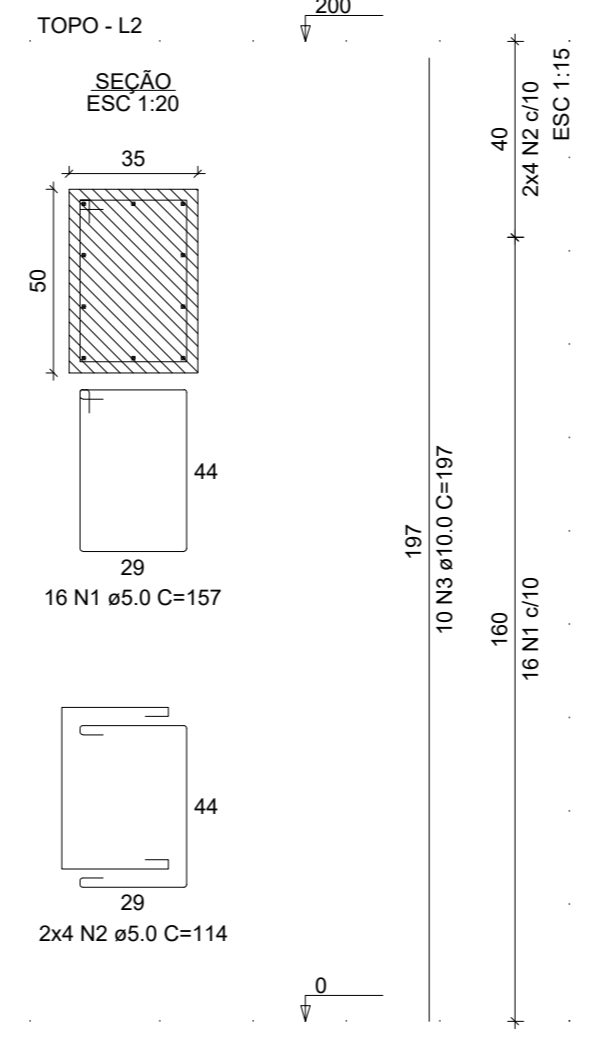


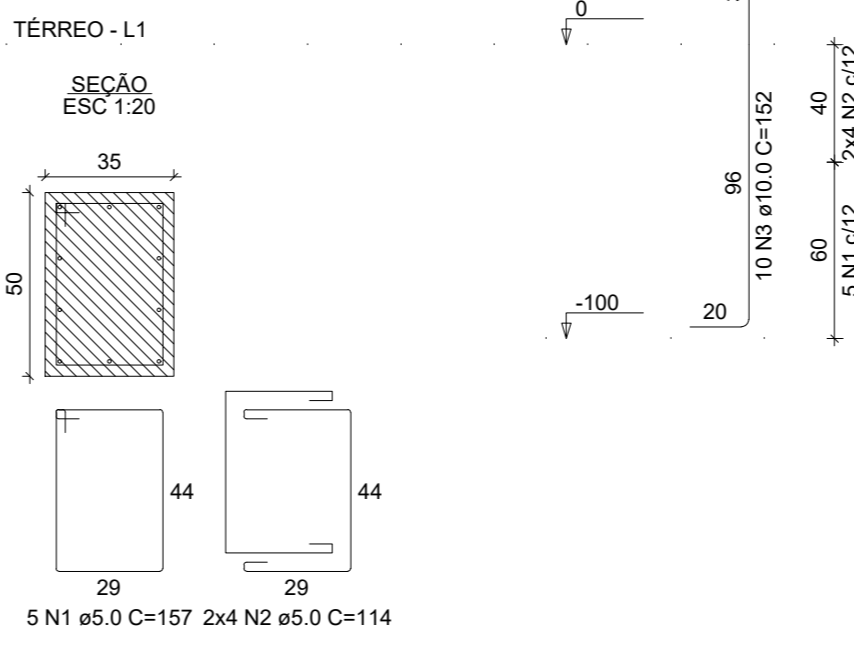
EST. QUADRA R12.000
ESTRUTURAL QUADRA SESC - PARAÍSO
Escala: 1:50



P1=P4=P5=P8=P9=P9_1=P9_4=
=P9_1_3



P1=P2=P3=P4=P5=P6=P7=P8



RELACÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO 1	1	5.0	40	157	6280
CASO 2	2	5.0	64	114	7296
CASO 3	3	10.0	80	152	12160

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (cm)	PESO + 10% (kg)
CASO 1	5.0	121.6	82.5
CASO 2	5.0	136.8	93.8
CASO 3	10.0	80.0	117.0

Volume de concreto (C-25) = 0.56 m³
Área de forma = 5.44 m²

RELACÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO 1	1	5.0	128	157	20096
CASO 2	2	5.0	64	114	7296
CASO 3	3	10.0	80	152	12160

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (cm)	PESO + 10% (kg)
CASO 1	5.0	127.6	106.9
CASO 2	5.0	136.8	93.8
CASO 3	10.0	80.0	117.0

Volume de concreto (C-25) = 2.80 m³
Área de forma = 27.20 m²

Elemento	Pos.	Diam.	Q.	Deb. (cm)	Refo. (cm)	Deb. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
(N576 - N584)	1	Ø10	13	11	316	11	238	2094	18,1	
	2	Ø10	13	11	316	11	238	2094	18,1	
	3	Ø10	13	11	VAR.	VAR.	VAR.	5237	19,7	
	4	Ø10	13	11	VAR.	VAR.	VAR.	5430	21,2	
	5	Ø10	13	11	VAR.	VAR.	VAR.	5430	21,2	
(N611 - N620)	6	Ø10	13	11	306	11	226	1964	16,5	
	7	Ø10	13	11	306	11	226	1964	16,5	
	8	Ø10	14	11	366	11	208	2121	17,9	
	9	Ø10	14	11	366	11	208	2121	17,9	
	10	Ø10	14	11	VAR.	VAR.	VAR.	5566	18,9	
Total: 1076								81,6		
(N713 - N721)	11	Ø10	13	11	306	11	226	1964	16,5	
	12	Ø10	13	11	306	11	226	1964	16,5	
	13	Ø10	14	11	366	11	208	2121	17,9	
	14	Ø10	14	11	366	11	208	2121	17,9	
	15	Ø10	14	11	VAR.	VAR.	VAR.	5566	18,9	
Total: 1076								81,6		
Total:								553,2		0,0
Total:								553,2		0,0